



FortiWeb 4000E

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テクニカルサポート・新機能の追加・新しい脅威への防御

请马上注册

您的飞塔产品

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March 15, 2016

2nd Edition

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<https://support.fortinet.com>

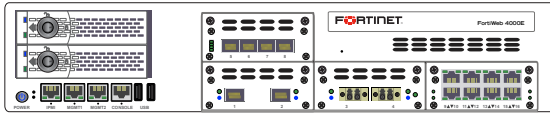
Toll free: 1 866 648 4638

Phone: 1 408 486 7899

Fax: 1 408 235 7737

Email: register@fortinet.com

Box Includes



FortiWeb 4000E



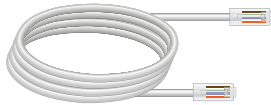
QuickStart Guide



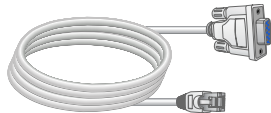
Tools and Documentation CD



2 Power Cables



Ethernet Cable



Console Cable



2 Front Handles



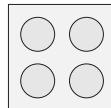
4 Bracket Screws



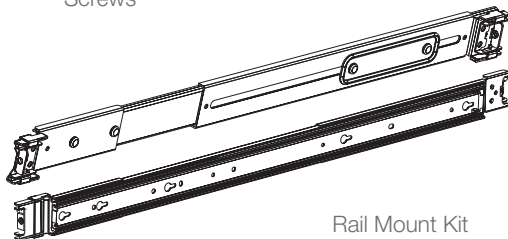
26 Rail Mount Screws



2 HDD tray keys



4 Rubber Feet



Rail Mount Kit

Before You Begin

Write down details that you may need from your network administrator or ISP.

DSL PPPoE

Username

Password

Cable Modem DHCP

It is normal to not require a hostname but your ISP may require it.

Hostname

T1/E1, Static broadband, Cable, or DSL with a static IP

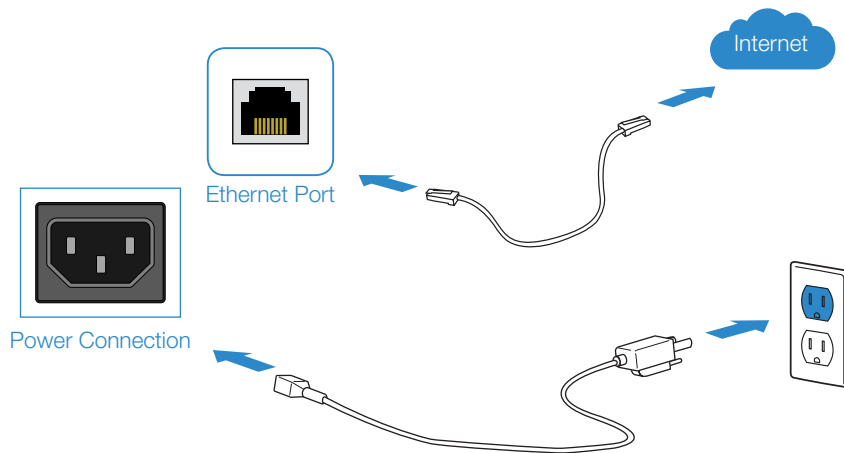
IP Address

Subnet Mask

Default Gateway

Primary/Secondary DNS

1 Basic Connections

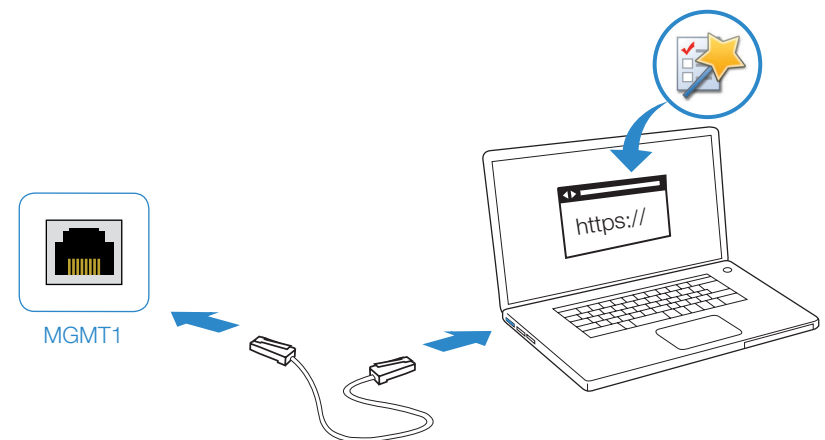


Connect your device to a [power outlet](#) and an [Internet connection](#) with an Ethernet port (ports 1-16). This is usually a modem, but could also be another device on your network.

2 FortiWeb Setup Options

- A **Web Browser**
With Ethernet cable (p.5)
- B **Terminal Emulation**
With console cable (p.6)

A Web Browser with Ethernet cable



Web-based Manager

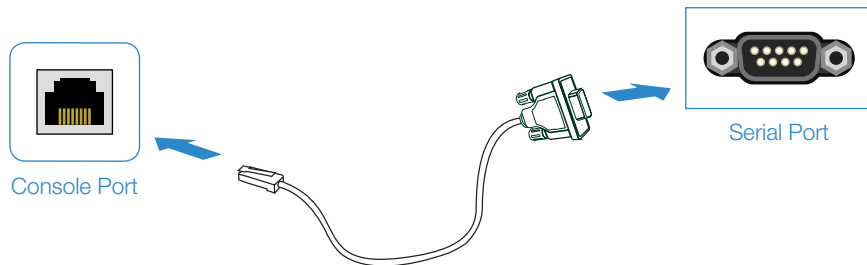
1. Use the [Ethernet cable](#) to connect MGMT1 port of the FortiWeb unit to the management computer.
2. Configure the management computer to match the FortiWeb unit's default MGMT1 subnet. For example:

IP address: 192.168.1.2

Netmask: 255.255.255.0

3. Visit [192.168.1.99](#) in your web browser.
4. Login using username "[admin](#)" and [no password](#).
5. [Configure your device](#) and save your settings.
6. [Register your device](#) from the dashboard page.

B Terminal Emulation with Console Cable



To Connect to the CLI

1. Connect the **FortiWeb** unit **console port** to the management computer using the provided **console cable**.
2. Start a **terminal emulation program** on the management computer. Select the **COM port** and use the following settings:

Baud Rate: 9600
Data bits: 8
Parity: None
Stop bits: 1
Flow Control: None

3. Press **Enter** on your keyboard to **connect to the CLI**.
4. Login using username **"admin"** and **no password**. You can now proceed with configuring your **FortiWeb** unit.

Get started by typing **"?"** for a list of available commands.

Begin typing a command and type **"?"** for a list of available ways to complete. For example **"config ?"** shows the lowest level of configuration options.

For a detailed guide, visit <http://docs.fortinet.com/fortiweb/reference>.

3 General Installation

The FortiWeb unit can be mounted in any standard **19 inch rack** unit with the provided rail mount kit.

Please read the "Cautions and Warnings" on page 20 prior to installing your device.

To install the FortiWeb unit into a rack:

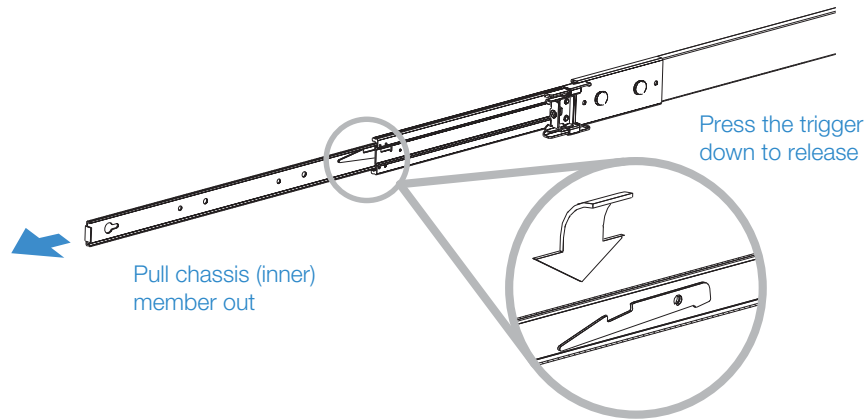
1. Ensure that the FortiWeb unit is placed on a stable surface prior to **rack-mount** installation.
2. Assemble the **rails** and install the system in the rack following the **safety instructions** and the rack installation instructions in **Rail Installation** (p. 8).
3. Verify that the **spacing** around the FortiWeb unit conforms to requirements and that the unit is level.
4. Connect the provided **power cables** to the system.
5. Plug the other end of the power cables into separate power sources, such as **uninterruptible power supplies** (UPS) or **power distribution units** (PDU).
6. Insert one end of the provided **Ethernet cable** into one of the Ethernet ports on the FortiWeb unit. Insert the other end to a **router or switch** that is connected to the **Internet**.
7. Press the **power button** on the system to turn on the device.

Do not place heavy objects on the unit.

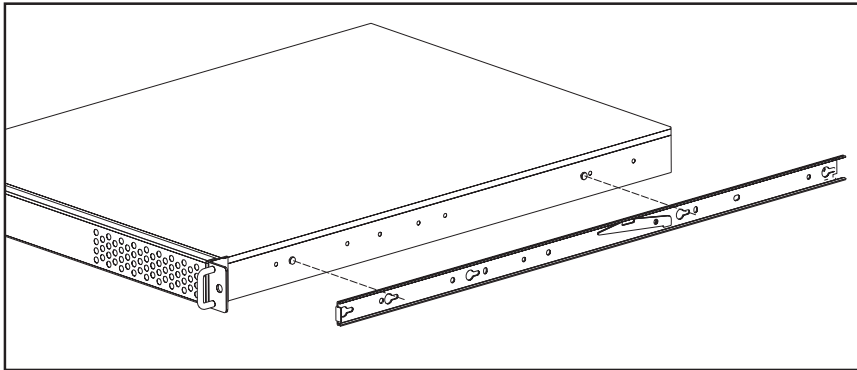
4 Rail Installation

To install the FortiWeb unit using the rail mount kit:

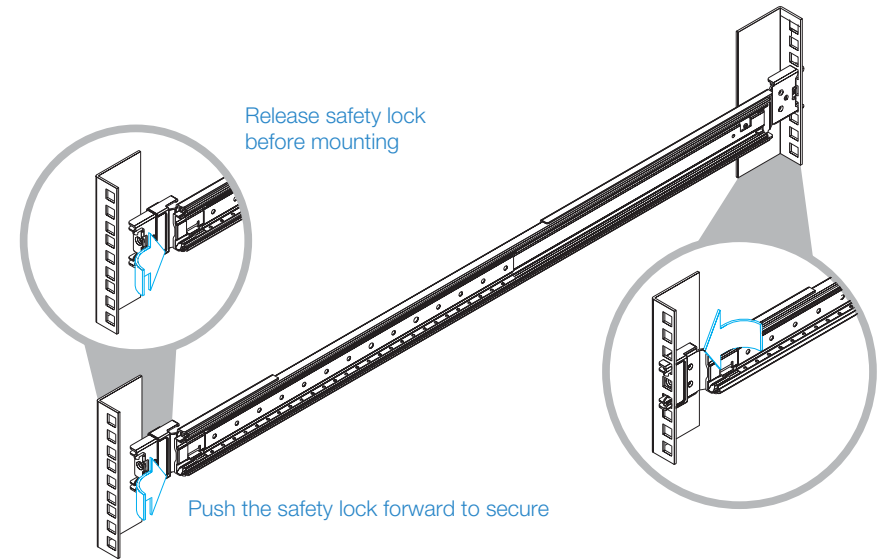
1. To remove the chassis (inner) member, pull the slide open, and then press the trigger down as shown on the drawing, and pull the chassis (inner) member out.



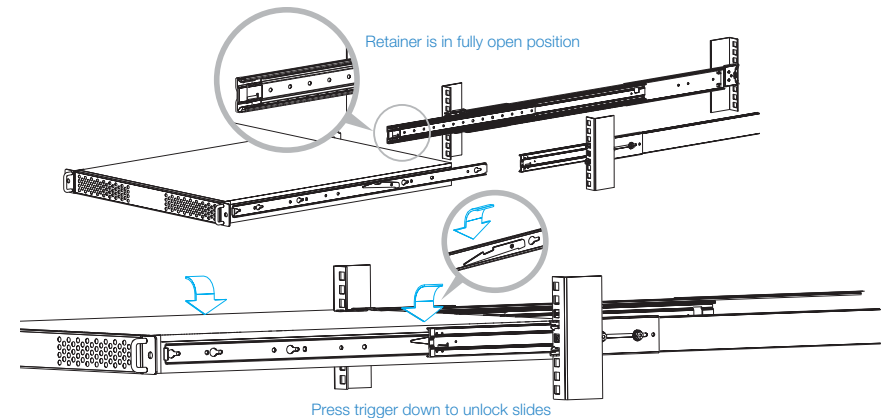
2. Use the standoffs to mount the chassis (inner) member to the chassis.



3. To attach the cabinet (outer) member to the rail, first ensure that the safety lock is in the unlocked position. Then, insert the stag into the upper and lower square holes on the EIA rail from the back of the rail. Finally, push the safety lock forward to secure the bracket.



4. To mount the chassis into the cabinet, first ensure that the ball retainer is in the fully open position. Then, insert the chassis (inner) member into the cabinet member. When you push the chassis back into the cabinet, press the trigger down to release the slide from the locked position.

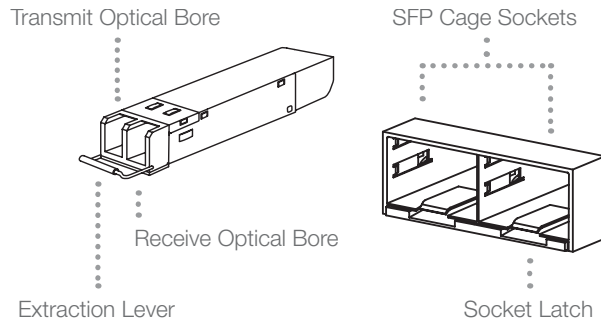


SFP Transceivers

Caution: SFP transceivers are static sensitive devices. Use an ESD wrist strap or similar grounding device when handling transceivers.

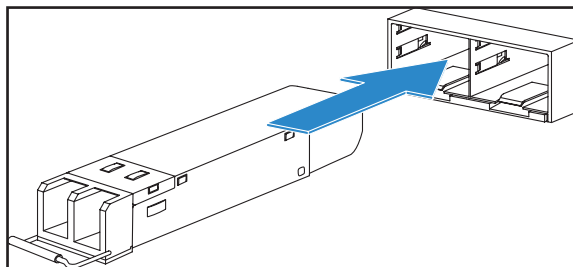
Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces. It may also prevent the transceiver from latching correctly into the socket connector.

Note: Installing and removing SFP transceivers can shorten their useful life. Do not install or remove transceivers more than is necessary.



To install the SFP transceivers

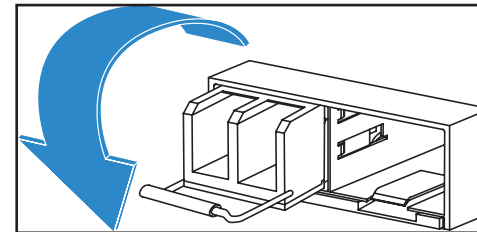
1. Ensure that you are properly grounded.
2. Remove the **caps** from the **SFP cage sockets** on the front panel of the unit.
3. Position the **SFP transceiver** in front of the **cage socket opening** and ensure that the transceiver is correctly oriented. When the **transceiver** is correctly oriented, the **extraction lever** will be level with the **socket latch**.
Note: SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented each time that you are inserting a transceiver.
4. Hold the sides of the **SFP transceiver** and slide it into the **cage socket** until it clicks into place.



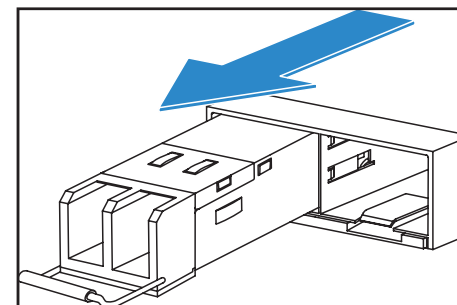
5. Press the **transceiver** firmly into the **cage socket** with your thumb.
6. Verify that the **transceiver** is latched correctly by grasping the sides of the **transceiver** and trying to pull it out without lowering the **extraction lever**.
If the **transceiver** cannot be removed, it is installed and latched correctly.
If the **transceiver** can be removed, reinsert it and press harder with your thumb.
If necessary, repeat this process until the **transceiver** is securely latched into the **cage socket**.

To remove the SFP transceivers

1. Ensure that you are properly grounded.
2. If applicable, disconnect the **fiber-optic cable** from the **transceiver connector** and install a clean **dust plug** in the **transceiver's optical bores**.
3. Pull the **extraction lever** out and down to eject the **transceiver**. If you are unable to use your finger to open the **lever**, use a **small flat-head screwdriver** or other similar tool to open the **lever**.



4. Hold the sides of the **transceiver** and carefully pull it away from the **cage socket**.



5. Replace the **cap** on the **SFP cage socket** and place the removed **SFP transceiver** into an **antistatic bag**.

Caution: Do not force the SFP transceivers into the cage slots. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

Note: Follow proper fiber-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.

IPMI

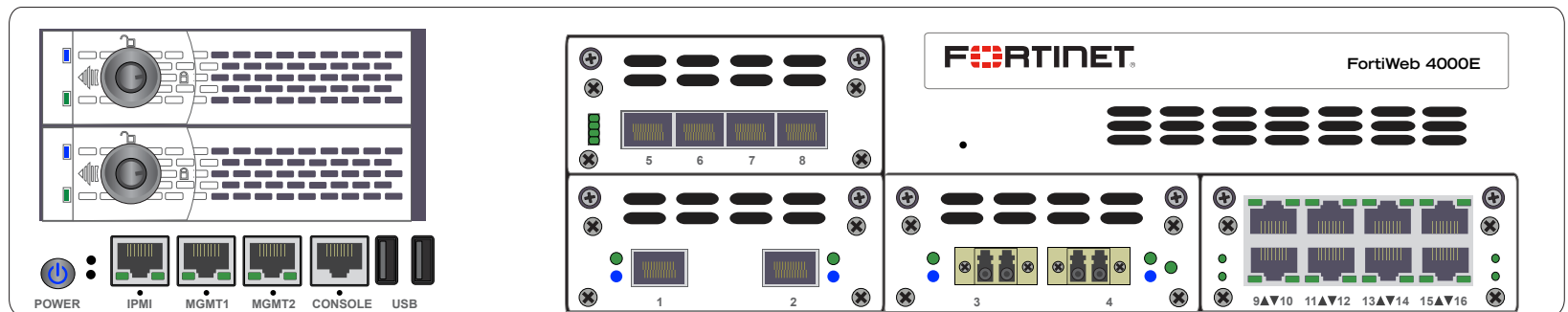
Optional connection to the management computer. Allows remote access to manage server independently of the operating system.

MGMT 1 & 2

Management ports.
Default IP address is
<https://192.168.1.99>

SFP Ports 5 - 8 (SFP)

Gigabit Ethernet ports for connection to your network and the Internet



Console

Optional connection to the management computer. Provides access to the CLI



USB Ports (USB A)

Reserved for future use

SFP+ Ports 1 - 2 (SFP+)

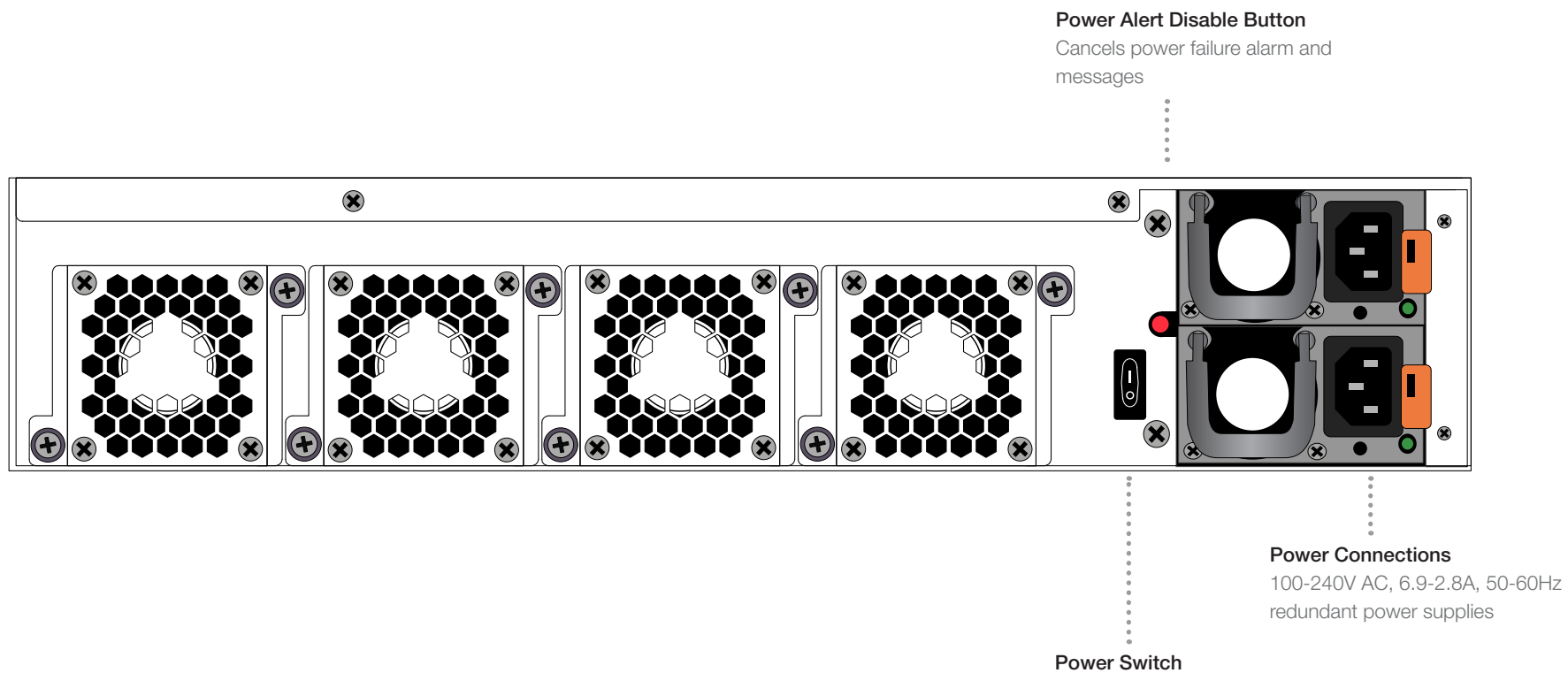
10-Gigabit Ethernet ports for connection to your network and the Internet

SFP+ Ports 3 - 4 (SFP+)

10-Gigabit Ethernet ports for connection to your network and the Internet. Port pairs wired for bypass/fail-open.

Ethernet Ports 9 - 16 (RJ-45)

Gigabit Ethernet ports for connection to your network and the Internet. Port pairs wired for bypass/fail-open.



HDD Power

- Blue: HDD power on
- Off: HDD power off

HDD Activity

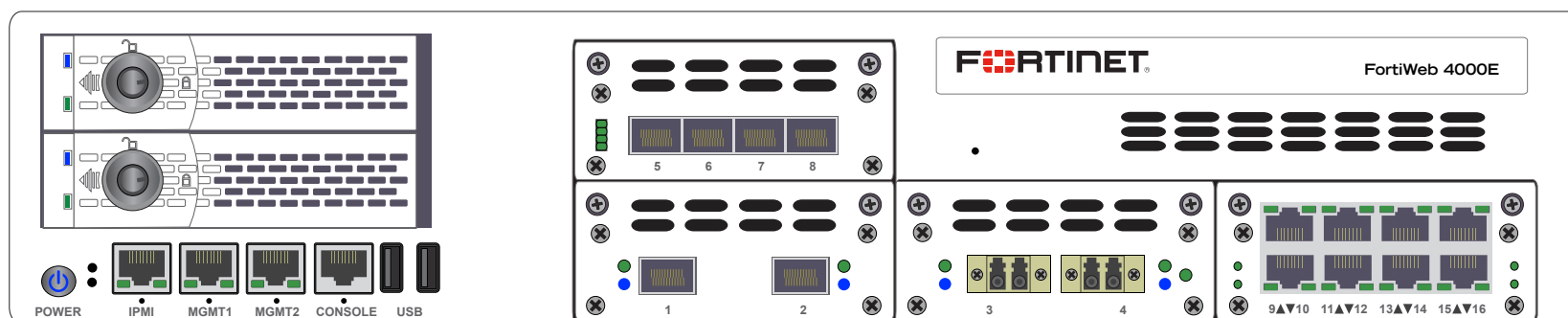
- Flashing Green: HDD read/write
- Off: HDD power off

Power

- Blue: System power on
- Off: The unit is off

SFP Ports Link/Activity (5-8, top to bottom)

- Green: Connected
- Flashing Green: Transmitting & receiving data
- Off: No link established



IPMI & MGMT Ports Link/Activity (Left)

- Green: Connected
- Flashing Green: Transmitting & receiving data
- Off: No link established

IPMI & MGMT Ports Speed (Right)

- Yellow: Connected at 1Gbps
- Green: Connected at 100Mbps
- Off: Connected at 10Mbps or not in use

SFP+ Ports Link/Activity (Top)

- Green: Connected
- Flashing Green: Transmitting & receiving data
- Off: No link established

SFP+ Ports Speed (Bottom)

- Blue: Connected at 10Gbps
- Yellow: Connected at 1Gbps

SFP+ LAN Bypass (Far Right) Ports 3 & 4 only

- Green: Normal
- Red: Bypass
- Off: Bypass disabled

RJ-45 Ports Link/Activity (Left)

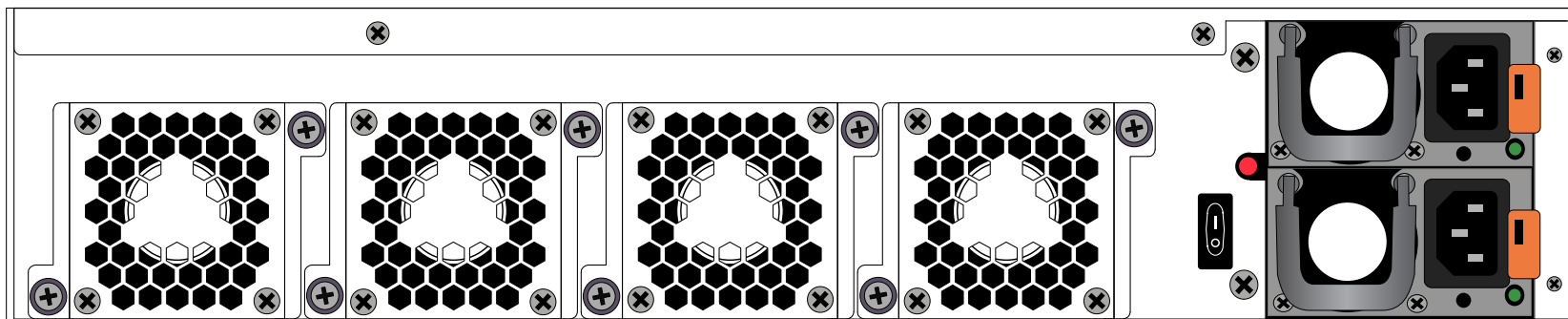
- Green: Connected
- Flashing Green: Transmitting & receiving data
- Off: No link established

RJ-45 Ports Speed (Right)

- Yellow: Connected at 1Gbps
- Green: Connected at 100Mbps
- Off: Connected at 10Mbps or not in use

RJ-45 LAN Bypass (Far Right & Left)

- Green: Normal
- Red: Bypass
- Off: Bypass disabled
- Top left: Ports 9 & 10
- Bottom left: Ports 11 & 12
- Top right: Ports 13 & 14
- Bottom right: Ports 15 & 16



Power Connections

- **Green:** Power supply operating normally, power on
- **Flashing Green:** Power supply operating normally, system standby
- **Flashing Yellow:** Power supply malfunction
- **Off:** Power not connected

Cautions and Warnings

Environmental specifications

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:

Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

Température ambiante élevée – S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (Tma) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Ventilation réduite – Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Chargement Mécanique – Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas liée à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Surtenstion – Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

Fiabilité de la mise à la terre– Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)
Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Battery – Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

Batterie – Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

Caution: Disconnect power supply cords before servicing

Attention: Débranchez les cordons de la source d'alimentation avant tout entretien.

Caution: Slide/rail mounted equipment is not to be used as a shelf or a work space.

Attention: Un équipement monté sur bâti ne doit pas être utilisé sur une étagère ou dans un espace de travail.

Regulatory Notices

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Voluntary Control Council for Interference (VCCI) – Japan

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Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which

must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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